

# SUBJECT INDEX

Vol. 136C, Nos. 1-4

- Acclimation, 253  
 Active metabolites, 85  
 Activity, 297  
 Acute toxicity, 253  
 Adipose tissue, 85  
 Ah Receptor, 29, 47  
 Albendazole, 9  
 Albendazole sulfoxide, 9  
 Allosteric regulation, 181  
 All-*trans*-retinoic acid, 199  
 Amino acid analysis, 387  
 Amphibia, 1, 225  
*Amphiuma*, 1  
 Anandamide, 245  
 Annelida, 181  
 Antibacterial protein, 63  
 Anticoagulant, 357  
 Antioxidant, 109  
 AOX, 165  
 Aquaporins, 1  
 Arsenic, 287  
 Arsenobetaine, 287  
 Ascorbic acid, 329  
 Aspermatogenesis, 343  
*Aster tataricus*, 109  
 Asymmetry, 73  
 Aurantiamide acetate, 109  
 Avian, 29, 47  
  
 Bacteria-induced gene, 337  
 Benzimidazoles, 9  
 Bile juice, 277  
 Bioaccumulation, 309  
 Bioavailability, 253  
 Biokinetics, 309  
 Biomarker, 235  
 Biotransformation enzymes, 145  
 Bird, 73  
 Blastogenic response, 319  
 Blood glucose concentration, 199  
 Body temperature, 329  
 Bone marrow, 319  
 Bovine, 297  
 Bradykinin potentiating peptides (BPP), 387  
 Brush tail possum (*Trichosurus vulpecula*), 165  
 BTC-5N, 213  
*Bufo arenarum*, 225  
  
 Cadmium, 265  
<sup>45</sup>Ca efflux, 387  
 Calcium, 181, 213  
 Calcium localization, 213  
 Calcium regulation, 387  
 Cancer, 343  
 Candidal activity, 225  
*Candida pseudotropicalis*, 225  
 Cannabinoid receptors, 245  
 Carp, 145  
 Catalase, 205  
 Catechin, 175  
 Cell viability, 175  
  
 Chemotherapy, 343  
 Chenodeoxycholic acid, 277  
 Chick, 29, 47, 245  
 Chicken, 17  
 Chicken, 329  
 Cholesterol ester, 73  
 Cholic acid, 277  
 9-*cis*-Retinoic acid, 199  
 Cobra BPP, 387  
 Competitive inhibition, 181  
 Concentration, 85  
 Contraction strength, 127  
 Copper, 253  
 Cyanide-intensive palmitoyl coenzyme A oxidation, 165  
 CYP1A, 235  
 CYP4A, 165  
 Cysteine-conjugate, 367  
 Cytochrome *c* oxidase, 135  
 Cytochrome P450, 297  
 Cytoprotection, 175  
  
*Daphnia magna*, 127, 253  
 Defense mechanisms, 205  
 Deformities, 47  
 Development, 73, 265  
 Dietary exposure, 309  
 1,7-Dihydroxy-6-methyl-anthraquinone, 109  
 Dioxin, 29, 47  
 Disaccharide analysis, 357  
 Dopaminergic receptor, 103  
 Drug interactions, 9  
 DW-116, 95  
  
 Egg, 73  
 Embryotoxicity, 343  
 Emodin, 109  
 Endocrine, 265  
 Endocrine disruption, 117  
 Endogenous antioxidant, 377  
 Endoplasmic reticulum, 213  
 Energy reserves, 253  
 Environmentally realistic (background) concentration, 253  
 Epididymides, 343  
 Epifriedelinol, 109  
 Epilepsy, 103  
 Epithelial transport, 181  
 Eri-silkworm, 337  
 EROD, 235  
 Esterases, 135  
 Estradiol, 145  
 Estrogen, 117  
 Estrogenic effect, 309  
 Ethyl formate, 135  
*Eucalyptus*, 165  
 Excitotoxicity, 245  
  
 Fish, 309  
 Fish gill, 235  
 Fish pathogens, 63  
  
 Fluidity, 191  
 Fluo-3, 213  
 Fluorescence polarization, 191  
 Fluoroquinolone, 95  
 Free radicals, 191, 205  
 Fumigant, 135  
  
 Gallbladder, 277  
 Garlic, 377  
 Ginseng, 9  
 Glucose, 17  
 Glutamine transaminase K, 367  
 Glutathione peroxidase, 205  
 Glycine betaine, 287  
 Glycoprotein, 63  
 Glycosaminoglycan, 357  
 Gonad, 117  
 Gram-negative bacteria, 63  
 GSH, 377  
 Gulf toadfish, 157  
  
 Hatchability, 17  
 Hdd11, 337  
 Heart, 377  
 Heart rate, 127  
 Heavy metal, 181  
 Heavy metals, 213  
 Heparan sulfate, 357  
 Heparin, 357  
 Hepatic encephalopathy, 157  
 Hepatopancreas, 213  
 Herbal products, 9  
 Hexachlorobutadiene, 367  
*Homarus americanus*, 213  
 hsp70, 329  
 6-Hydroxydopamine (6-OHDA), 175  
 Hyperammonemia, 157  
 Hyperglycemia, 199, 205  
  
 Immunogenicity, 343  
 Immunohistochemistry, 1  
 Innate host defense, 63  
 Insect, 135  
 Insect immunity, 337  
 Integument, 181  
 Intersex, 145  
 Intestinal elimination, 9  
 Intestine, 357  
 Intrinsic growth rate, 253  
 Ion cotransporter proteins, 1  
 Ischemic heart disease, 377  
 Isoproterenol, 377  
  
 Kaempferol, 109  
 Kidney, 1  
 Kidney dysfunction, 277  
  
 Lauric acid hydroxylase (LAH), 165  
 Lead, 225  
 Leydig cells, 343  
 L-Histidine, 181

## Subject Index

- Lipid peroxidation, 175, 205, 377  
 Lipids, 73  
 Liver dysfunction, 277  
 L-Leucine, 181  
 Lobster, 213  
 Lysosomes, 213  
 Lytic activity, 225
- MAO, 191  
 Marine mammals, 287  
 Medaka, 265  
 Medicinal herb, 109  
 Melatonin, 319  
 Mesencephalic cell cultures, 175  
 Metallothionein, 213  
 Metaproterenol, 127  
 Metoprolol, 127  
 Microsomes, 297  
 Milk secretion, 95  
 Mitochondria, 135  
 Mitochondrion, 191  
 Molluscs, 117  
 Molting, 213  
 Monoamine oxidase, 117, 191  
 Monoamines, 103  
 Muscarinic receptor, 103  
 Myocardial adaptation, 377
- Na<sup>+</sup>-channel blocker, 387  
 Nephrotoxicity, 367  
*Nereis succinea*, 181  
 Nerve ganglia, 117  
 Neutrophils, 225  
<sup>15</sup>NH<sub>4</sub>Cl, 157  
 Nicotinamide-adenine dinucleotide (NAD), 165  
 Nicotinamide-adenine dinucleotide phosphate (NADP), 165  
 Nitric oxide, 191  
 Nitric oxide (NO), 175  
 NO, 191  
 Nonylphenol, 117
- Oncorhynchus mykiss*, 309  
 One humped camel, 357  
*Opsanus beta*, 157  
 Optimal concentration range, 253
- Organ and body mass, 17  
 Ornithine-urea cycle, 157  
 Osmolyte, 287  
 Ouabain, 127  
 Oxidative cell damage, 175  
 Oxidative stress, 377
- Pancreatic damage, 205  
 Parr, 235  
 Percent lymphocyte count, 319  
 Peroxisome proliferator activated receptor alpha (PPAR $\alpha$ ), 165  
 Peroxisome proliferator-activated receptor  $\gamma$  (PPAR $\gamma$ ), 85  
 Phagocytosis, 225  
 Pharmacokinetics, 85, 95  
 Phospholipid, 73  
 Pilocarpine, 103  
 Pineal, 319  
 Pioglitazone, 85  
 Polychaete worm, 181  
 Polymorphonuclear cells, 225  
 Prenatal exposure, 17  
 Primary neuronal culture, 245  
 Propylparaben, 309  
 Proximal tubule, 367  
 Purification, 63
- Quercetin, 109
- Rabbit, 297  
*Rana*, 1  
 Rat, 9, 297  
 Rat myocardial muscles, 387  
 Rats, 85  
 Regeneration, 367  
 Renal failure, 277  
 Reproduction, 265  
 Resistance, 367  
 Ribonuclease A, 343  
 Ribonuclease inhibitor, 343  
 Rockfish *Sebastes schlegeli*, 63  
 RT-PCR, 297
- Samia cynthia ricini*, 337  
 Scopoletin, 109  
 Sea turtles, 287
- Seabirds, 287  
 Seizures, 103  
 Sewage treatment works, 145  
 Sex difference, 85  
 Shionone, 109  
 Skin secretion, 63  
 Smolt, 235  
 Snake bile, 277  
 Snake venoms, 387  
 SNAP, 191  
 Sodium pump, 1  
*Speleomantes*, 1  
 Splenocytes, 319  
 Status epilepticus, 103  
 Steroid, 265  
 Striatum, 103  
 Subcellular distribution, 287  
 Superoxide dismutase, 205  
 Suppression subtractive hybridization, 337
- Teleost, 265  
 Terpenes, 165  
 Testes, 343  
 Testicular atrophy, 145  
 Testosterone, 145  
 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin, 17  
 Thymocytes, 319  
 Thyroid hormones, 17  
 Tissue distribution, 95  
 Tongue, 297  
 Total leukocyte count, 319  
 Toxicity, 135, 277  
 Trace element, 287  
 Transfected serotonin receptors, 117  
 Triacylglyceride, 73  
 Triglycerides, 17  
 Tubular damage, 367
- Uca pugnator*, 199
- Verapamil, 127  
 Vitellogenin, 145, 265, 309
- Water exposure, 309
- Zinc, 181

**AUTHOR INDEX**  
*Vol. 136C, Nos. 1-4*

- Abrahamson, A., 235  
Ahearn, G.A., 113  
Ahearn, G.A., 181  
Álvarez, A.I., 9  
Alvarez, C., 205  
Amidon, G.L., 95  
Andersen, D.N., 309  
Arrieta, M.A., 225
- Banerjee, S.K., 377  
Bao, Y., 337  
Barceló, D., 145  
Barrón, H., 205  
Benson, W.H., 265  
Bezerra Felipe, C.F., 103  
Bjerregaard, P., 309  
Blaise, C., 117  
Blankenship, A.L., 47  
Blankenship, A.L., 29  
Bonvillain, R., 199  
Boroushaki, M.T., 367  
Bossuyt, B.T.A., 253  
Boutet, I., 213  
Brandt, I., 235  
Bruggeman, V., 17  
Brunström, B., 235  
Bursian, S.J., 47
- Castro, H., 213  
Chavez-Crooker, P., 213  
Cheng, C.H.K., 109  
Chi, L., 357  
Chung, M.-K., 95  
Coady, K.K., 47  
Coady, K.K., 29  
Cunha, G.M.A., 175
- Das, T.K., 377  
De Ketelaere, B., 17  
Decuyper, E., 17  
Deng, J.-F., 277  
DeWitt, J., 73  
Dice, M.S., 213  
Dinda, A.K., 377  
Dojchinov, G., 135
- Edens, F.W., 329  
Eisen, E.J., 329  
El-Saadani, M.A.M., 387  
El-Sayed, M.F., 387
- Favari, L., 205  
Fink, N.E., 225  
Fonteles, M.Maria.d.F., 103  
Foran, C.M., 265  
Fowler, C.J., 245  
Freitas, R.Mendes., 103  
Fujihara, J., 287
- Fujita, Y., 85
- Gagné, F., 117  
García, J.L., 9  
Giesy, J.P., 29  
Giesy, J.P., 47  
Gouda, E.M., 357
- Haldar, C., 319  
Haritos, V.S., 135  
Havenstein, G.B., 329  
Henshel, D., 73  
Hilscherova, K., 47  
Hilscherova, K., 29  
Hwang, D.-F., 277
- Iga, T., 85  
Ingebrigtsen, K., 235
- Jacobsson, S.O.P., 245  
Janssen, C.R., 253  
Jönsson, M., 235  
Jørgensen, E.H., 235  
Jung, Y.-H., 95
- Kadowaki, T., 85  
Kamon, J., 85  
Kannan, K., 47  
Kikuchi, N., 63  
Kim, J.-C., 95  
Kim, J.-S., 95  
Korsgaard, B., 309  
Kubota, R., 287  
Kunito, T., 287  
Kusama, M., 85
- Lasley, B., 73  
Lee, J.E., 343  
Lee, M.-K., 95  
Liau, M.-Y., 277  
Linhardt, R.J., 357  
Liu, F., 109  
Lu, Y., 109
- Mahmoud, K.Z., 329  
Maia, F.D., 175  
Masini, M.A., 1  
Matousek, J., 343  
Maulik, S.K., 377  
McKinnon, R.Allan., 165  
Medling, T., 297  
Mega, K., 337  
Merino, G., 9  
Molina, A.J., 9  
Moraes, M.O., 175  
Moraga, D., 213  
Morishima, I., 337  
Muriel, P., 191
- Nagashima, Y., 63  
Nascimento, V.S., 103  
Ng, T.B., 109  
Ngo, S.Ngoc.T., 165  
Nie, M., 29  
Nie, M., 47  
Nilsson, O., 245  
Nobre Júnior, H.V., 175  
Noguchi, T., 277
- Oliveira, A.A., 103  
Oliveira, R.A., 175  
Onagbesan, O., 17
- Pedersen, K.L., 309  
Pedersen, S.N., 309  
Peppler, J.E., 181  
Pérez-Rojas, J.M., 191  
Piferrer, F., 145  
Porte, C., 145  
Powell, D.C., 47  
Pozo, P., 213  
Prato, P., 1  
Prieto, J.G., 9  
Pulido, M.M., 9
- Rai, S., 319  
Raines, R.T., 343  
Raldúa, D., 145  
Raner, G.M., 297  
Rao, V.S.N., 175  
Recoba, R., 205  
Reyes, J.L., 127  
Rodicio, L.P., 157  
Rosas-L, E., 127  
Rosenberg, C.E., 225
- Salibián, A., 225  
Shimakura, K., 63  
Shin, H.-C., 95  
Shiomi, K., 63  
Slavik, T., 343  
Solé, M., 145  
Sood, S., 377  
Soto, C., 205  
Soucek, J., 343  
Stanton, B., 73  
Sternberg, L.da.S.Lobo., 157  
Stupans, I., 165  
Sturla, M., 1  
Swennen, Q., 17
- Tanabe, S., 287  
Tanguy, A., 213  
Tilton, S.C., 265  
Toida, T., 357  
Tománek, M., 343  
Tona, K., 17

Author Index

Trosko, J.E., 29

Upham, B.L., 29

Uva, B.M., 1

Viana, G.S.B., 103

Villalobos, S.A., 47

Villegas-Navarro, A., 127

Walsh, P.J., 157

Wang, D.-Y., 277

Wang, Z., 109

Warda, M., 357

Watkins, S., 73

Wu, M.-L., 277

Yamada, Y., 85

Yamano, Y., 337

Yamauchi, T., 85

Yang, S.-P., 297

Yeh, Y.-H., 277

Zou, E., 199

